CLAIMS

Claim 1. A signal recording method comprising:

inserting an identification signal relevant to video signals and/or audio signals as a portion of said video signals and/or the audio signals in a configuration of reducing the effects on said video signals and/or the audio signals; and

recording the video signals and/or the audio signals, into which has been inserted said identification signal, on a signal record medium.

Claim 2. The signal recording method as claimed in claim 1 wherein said identification signal is inserted into said video signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 3. The signal recording method as claimed in claim 1 or 2 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.

Claim 4. The signal recording method as claimed in claim 3 wherein said identification signal is inserted into video signals and/or audio signals of high signal energy.

Claim 5. The signal recording method as claimed in claim 2 wherein said identification signal is inserted into video signals and/or audio signals at a synchronous timing.

Claim 6. The signal recording method as claimed in claim 2 wherein said identification signal is inserted into video signals and/or

audio signals at an asynchronous timing.

Claim 7. The signal recording method as claimed in claim 1 wherein said identification signal is inserted into a low order bit side of a pre-set sample of said video signals and/or the audio signals of larger signal energy.

Claim 8. The signal recording method as claimed in claim 7 wherein said identification signal is inserted into video signals and/or audio signals of high signal energy.

Claim 9. The signal recording method as claimed in claim 1 wherein said identification signal is inserted into video signals and/or audio signals at a synchronous timing.

Claim 10. The signal recording method as claimed in claim 1 wherein said video signals and/or the audio signals are compressed signals.

Claim 11. The signal recording method as claimed in claim 1 wherein said identification signal is arrayed at a higher coefficient position of the coefficients obtained on orthogonal transform of said video signals and/or the audio signals.

Claim 12. The signal recording method as claimed in claim 1 wherein, when a dither noise is added to the video signals and/or the acoustic noise, the dither noise is modulated in accordance with said identification signal.

Claim 13. A signal recording apparatus comprising:

identification signal inserting means for inserting an identification signal relevant to video signals and/or audio signals as a portion of said video signals and/or the audio

signals in a configuration of reducing the effects on said video signals and/or the audio signals; and

recording means recording the video signals and/or the audio signals, into which has been inserted said identification signal, on a signal record medium.

Claim 14. The signal recording apparatus as claimed in claim 13 wherein said identification signal is inserted into said video signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 15. The signal recording apparatus as claimed in claim 14 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.

Claim 16. The signal recording apparatus as claimed in claim 15 wherein said identification signal is inserted into video signals and/or the audio signals of high signal energy.

Claim 17. The signal recording method as claimed in claim 14 wherein said identification signal is inserted into video signals and/or the audio signals at a synchronous timing.

Claim 18. The signal recording method as claimed in claim 14 wherein said identification signal is inserted into video signals and/or the audio signals at an asynchronous timing.

Claim 19. The signal recording method as claimed in claim 13 wherein said identification signal is inserted into a low order bit side of a pre-set sample of said video signals and/or the audio

signals of larger signal energy.

Claim 20. The signal recording apparatus as claimed in claim 19 wherein said identification signal is inserted into video signals and/or the audio signals of high signal energy.

Claim 21. The signal recording method as claimed in claim 13 wherein said identification signal is inserted into video signals and/or the audio signals at a synchronous timing.

Claim 22. The signal recording method as claimed in claim 13 wherein said video signals and/or the audio signals are compressed signals.

Claim 23. The signal recording method as claimed in claim 13 wherein said identification signal is arrayed at a higher coefficient position of the coefficients obtained on orthogonal transform of said video signals and/or the audio signals.

Claim 24. The signal recording apparatus as claimed in claim 13 wherein, when a dither noise is added to the video signals and/or the acoustic noise, the dither noise is modulated in accordance with said identification signal.

Claim 25. A signal reproducing method comprising:

reproducing a signal record medium having recorded thereon at least an identification signal relevant to video signals and/or audio signals, said identification signal having been inserted as a portion of said video signals and/or the audio signals in a configuration of reducing the effects on said video signals and/or the audio signals; and

detecting, from the signal reproduced from said signal record medium, the identification signal inserted as a portion of said video signals and/or the audio signals.

Claim 26. The signal reproducing method as claimed in claim 25 wherein said identification signal is inserted into said video signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 27. The signal reproducing method as claimed in claim 26 or 2 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.

Claim 28. The signal reproducing method as claimed in claim 27 wherein said identification signal is inserted into video signals and/or the audio signals of high signal energy.

Claim 29. The signal reproducing method as claimed in claim 26 wherein said identification signal is inserted into video signals and/or the audio signals at a synchronous timing.

Claim 30. The signal reproducing method as claimed in claim 26 wherein said identification signal is inserted into video signals and/or the audio signals at an asynchronous timing.

Claim 31. The signal reproducing method as claimed in claim 25 wherein said identification signal is inserted into a low order bit side of a pre-set sample of said video signals and/or the audio signals of larger signal energy.

Claim 32. The signal reproducing method as claimed in claim 31

wherein said identification signal is inserted into video signals and/or the audio signals of high signal energy.

Claim 33. The signal reproducing method as claimed in claim 25 wherein said identification signal is inserted into video signals and/or the audio signals at a synchronous timing.

Claim 34. The signal reproducing method as claimed in claim 25 wherein said video signals and/or the audio signals are compressed signals.

Claim 35. The signal reproducing method as claimed in claim 25 wherein said identification signal is arrayed at a higher coefficient position of the coefficients obtained on orthogonal transform of said video signals and/or the audio signals.

Claim 36. The signal reproducing method as claimed in claim 25 wherein signals reproduced from said signal record medium are said video signals and/or the audio signals to which has been added a dither noise modulated in accordance with said identification signal, and wherein said dither noise is separated from the reproduced signals for extracting said identification signal.

Claim 37. A signal reproducing apparatus comprising:

reproducing means for reproducing a signal record medium having recorded thereon at least an identification signal relevant to video signals and/or audio signals, said identification signal having been inserted as a portion of said video signals and/or the audio signals in a configuration of reducing the effects on said video signals and/or the audio signals; and

detection means for detecting, from the signal reproduced from said signal record medium, the identification signal inserted as a portion of said video signals and/or the audio signals.

Claim 38. The signal reproducing apparatus as claimed in claim 37 wherein said identification signal is inserted into said video signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 39. The signal reproducing apparatus as claimed in claim 38 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.

Claim 40. The signal reproducing apparatus as claimed in claim 39 wherein said identification signal is inserted into video signals and/or the audio signals of high signal energy.

Claim 41. The signal reproducing apparatus as claimed in claim 38 wherein said identification signal is inserted into video signals and/or the audio signals at a synchronous timing.

Claim 42. The signal reproducing apparatus as claimed in claim 38 wherein said identification signal is inserted into video signals and/or the audio signals at an asynchronous timing.

Claim 43. The signal reproducing apparatus as claimed in claim 37 wherein said identification signal is inserted into a low order bit side of a pre-set sample of said video signals and/or the audio signals of larger signal energy.

Claim 44. The signal reproducing apparatus as claimed in claim 43

wherein said identification signal is inserted into video signals and/or the audio signals of high signal energy.

Claim 45. The signal reproducing apparatus as claimed in claim 37 wherein said identification signal is inserted into video signals and/or the audio signals at a synchronous timing.

Claim 46. The signal reproducing apparatus as claimed in claim 37 wherein said video signals and/or the audio signals are compressed signals.

Claim 47. The signal reproducing apparatus as claimed in claim 37 wherein said identification signal is arrayed at a higher coefficient position of the coefficients obtained on orthogonal transform of said video signals and/or the audio signals.

Claim 48. The signal reproducing apparatus as claimed in claim 37 wherein signals reproduced from said signal record medium are said video signals and/or the audio signals to which has been added a dither noise modulated in accordance with said identification signal, and wherein said detection means separates said dither noise from the reproduced signals for extracting said identification signal.

Claim 49. An information record medium having recorded thereon video signals and/or the audio signals to which has been inserted an identification signal relevant to said video signals and/or audio signals, said identification signal having been inserted as a portion of said video signals and/or the audio signals in a configuration of reducing the effects on said video signals and/or

the audio signals.

Claim 50. The signal reproducing medium as claimed in claim 49 wherein said identification signal is inserted into said video signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 51. The signal record medium as claimed in claim 50 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.

Claim 52. The signal record medium as claimed in claim 51 wherein said identification signal is inserted into video signals and/or the audio signals of high signal energy.

Claim 53. The signal record medium as claimed in claim 50 wherein said identification signal is inserted into video signals and/or the audio signals at a synchronous timing.

Claim 54. The signal record medium as claimed in claim 50 wherein said identification signal is inserted into video signals and/or the audio signals at an asynchronous timing.

Claim 55. The signal record medium as claimed in claim 49 wherein said identification signal is inserted into a low order bit side of a pre-set sample of said video signals and/or the audio signals of larger signal energy.

Claim 56. The signal record medium as claimed in claim 55 wherein said identification signal is inserted into video signals and/or audio signals of high signal energy.

Claim 57. The signal record medium as claimed in claim 49 wherein said identification signal is inserted into video signals and/or audio signals at a synchronous timing.

Claim 58. The signal record medium as claimed in claim 49 wherein said video signals and/or the audio signals are compressed signals.

Claim 59. The signal record medium as claimed in claim 49 wherein said identification signal is arrayed at a higher coefficient position of the coefficients obtained on orthogonal transform of said video signals and/or the audio signals.

Claim 60. The signal record medium as claimed in claim 49 wherein a dither noise modulated in accordance with the identification signal is added to said video signals and/or the audio signals and the resulting signals are recorded on the signal record medium.

Claim 61. A signal transmission method comprising:

inserting an identification signal relevant to video signals and/or audio signals into the video signals and/or the audio signals in a configuration of reducing the effects on said video signals and/or the audio signals; and

transmitting the video signals and/or the audio signals in which has been inserted the identification signal.

Claim 62. The signal transmission method as claimed in claim 61 wherein said identification signal is inserted into said video signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 63. The signal transmission method as claimed in claim 62 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.

Claim 64. A signal transmission apparatus comprising:

identification signal inserting means for inserting an identification signal relevant to video signals and/or audio signals into the video signals and/or the audio signals in a configuration of reducing the effects on said video signals and/or the audio signals; and

transmission means for transmitting the video signals and/or the audio signals in which has been inserted the identification signal.

Claim 65. The signal transmission apparatus as claimed in claim 64 wherein said identification signal is inserted into said video signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 66. The signal transmission apparatus as claimed in claim 65 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.

Claim 67. A signal receiving method comprising:

receiving a signal comprised of video signals and/or audio signals and an identification signal relevant to video signals and/or audio signals, said identification signal having been inserted as a portion of said video signals and/or the audio

signals in a configuration of reducing the effects on said video signals and/or the audio signals; and

detecting, from the received signal, the identification signal inserted as a portion of said video signals and/or the audio signals.

Claim 68. The signal receiving method as claimed in claim 67 wherein said identification signal is inserted into said video signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 69. The signal receiving method as claimed in claim 68 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.

Claim 70. A signal receiving apparatus comprising:

receiving means for receiving a signal comprised of video signals and/or audio signals and an identification signal relevant to said video signals and/or the audio signals, said identification signal having been inserted as a portion of said video signals and/or the audio signals in a configuration of reducing the effects on said video signals and/or the audio signals; and

detection means for detecting, from the received signal, the identification signal inserted as a portion of said video signals and/or the audio signals.

Claim 71. The signal receiving apparatus as claimed in claim 70 wherein said identification signal is inserted into said video

signals and/or the audio signals in a configuration of being detected on statistic processing of said video signals and/or the audio signals.

Claim 72. The signal receiving apparatus as claimed in claim 71 wherein said identification signal is inserted into a low order bit side of said video signals and/or the audio signals.